

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended). A method, comprising:
generating dynamic control values from dynamically selected colors using an existing characterization for a device, said dynamically selected colors being colorimetrically different than colors defined by a predetermined set of fixed control values; and

producing a characterization target for the device having color regions ~~corresponding~~ having the dynamic control values.

2 (currently amended). A method as recited in claim 1, further comprising:

combining ~~predetermined~~ said fixed control values for the device with the dynamic control values and producing the characterization target from the dynamic control values and ~~the predetermined~~ said fixed control values.

3 (original). A method as recited in claim 1, wherein said generating comprises:

providing dynamic colorimetric values for the dynamically selected colors; and

determining the dynamic control values for the colorimetric colors using the existing characterization.

4 (currently amended). A method as recited in claim 3, wherein said determining comprises:

determining relative colorimetric values from the dynamic colorimetric values using a white point of a predetermined medium defined in the existing characterization; and

determining the dynamic control values for the relative colorimetric values using a profile transform of the existing characterization.

5 (original). A method as recited in claim 1, wherein the producing comprises providing the color regions in a topology having one of verification and device behavior characteristics.

6 (original). A method as recited in claim 1, wherein the existing output device characterization is an ICC profile.

7 (original). A method as recited in claim 1, wherein the existing output device characterization is a characterization for a similar device.

8 (original). A method as recited in claim 1, wherein the existing output device characterization is a characterization for a group of similar devices to which the device belongs.

9 (currently amended). A method for creating a dynamic output device characterization target using an existing characterization for the device, comprising:

providing a set of predetermined fixed control values for the device;

choosing a set of important colors, said important colors being colorimetrically different than colors defined by said fixed color values;

obtaining a set of colorimetric values corresponding to the important colors;

generating a set of dynamic control values by converting the colorimetric values to device control values using the existing characterization;
and

producing the characterization target having patches corresponding to having the device control values.

10 (original). A method as recited in claim 9, wherein the existing output device characterization is an ICC profile.

11 (currently amended). A method as recited in claim 9, wherein the characterization target contains patches ~~corresponding to~~ having a set of fixed control values.

12 (currently amended). A method, comprising:
producing predetermined sample control values for ~~the~~ a device that uniformly sample a device color space;
generating dynamic control values from dynamically selected colors using an existing characterization for ~~a~~ the device;
~~combining the predetermined control values for the device with the dynamic control values; and~~
producing a characterization target for the device having color regions ~~corresponding to~~ having the dynamic control values and the predetermined control values;
colorimetrically measuring said color regions of said characterization target; and
generating a new characterization of the device based on said measuring.

13 (currently amended). A method, comprising:
producing predetermined sample control values for a device that uniformly sample a device color space of the device;
dynamically choosing important colors, said important colors being colorimetrically different than colors defined by said sample control values;
obtaining dynamic colorimetric values corresponding to the important colors;
generating dynamic control values by converting the colorimetric values to device control values using an existing ICC characterization for the device, said characterization including a white point for a predetermined media usable in said device, comprising said generating comprising:
(a) determining relative colorimetric values for the dynamic colorimetric values using a said white point of the existing characterization;

(b) determining the dynamic control values from the relative colorimetric values using a profile transform of the existing characterization;

combining the predetermined control values for the device with the dynamic control values; and

producing a characterization target for the device on said predetermined media, said characterization target having color regions corresponding to the dynamic control values and the predetermined control values comprising the color regions in a topology having verification and device behavior characteristics, said color regions having the dynamic control values and the predetermined control values.

14 (currently amended). An apparatus, comprising:

a source for a characterization for a device; and

a computer obtaining predetermined fixed uniform sample control values for the device, producing dynamic control values from dynamically selected colors using the characterization, said dynamically selected colors being colorimetrically different than colors defined by said fixed uniform sample control values, and producing a characterization target for the device having color regions ~~corresponding to~~ having the dynamic control values and the predetermined fixed uniform sample control values.

15 (currently amended). A computer readable storage controlling a computer by obtaining predetermined fixed uniform sample control values for the device, producing dynamic control values from dynamically selected colors using an existing device characterization, said dynamically selected colors being colorimetrically different than colors defined by said fixed uniform sample control values, and producing a characterization target for the device having color regions corresponding to the dynamic control values and the predetermined fixed uniform sample control values.

16-20 (cancelled).

21 (new). A method as recited in claim 12 further comprising combining the predetermined control values for the device with the dynamic control values prior to said producing.

22 (new). A method comprising:
generating dynamic control values from dynamically selected colors using an existing characterization for a device;
producing a characterization target for the device, said target having first and second pluralities of color regions, said color regions being colorimetrically measurable, said color regions of said first plurality each having a respective one of said dynamic control values, said color regions of said second plurality each having a respective one of said predetermined fixed control values.

23 (new). A method as recited in claim 22, further comprising:
combining said fixed control values for the device with the dynamic control values; and
producing the characterization target from the dynamic control values and said fixed control values.

24 (new). A method as recited in claim 22, wherein said generating comprises:
providing dynamic colorimetric values for the dynamically selected colors; and
determining the dynamic control values for the colorimetric colors using the existing characterization.

25 (new). A method as recited in claim 24, wherein said determining comprises:
determining relative colorimetric values from the dynamic colorimetric values using a white point of a predetermined medium defined in the existing characterization; and
determining the dynamic control values for the relative colorimetric values using a profile transform of the existing characterization.

26 (new). The method of claim 9 wherein at least some of said important colors are non-neutral.

27 (new). The method of claim 9 wherein said important colors include one or more of skin color, sky blue, and foliage green.

28 (new). The method of claim 9 wherein said important colors include skin colors, sky blue, foliage green, and visual neutrals.

29 (new). A method for creating a dynamic output device characterization target using an existing characterization for the device, comprising:

providing a set of predetermined fixed control values for the device;

choosing a set of important colors, said important colors being colorimetrically different than colors defined by said fixed color values, said important colors including one or more of skin colors, sky blue, and foliage green;

obtaining a set of colorimetric values corresponding to the important colors;

generating a set of dynamic control values by converting the colorimetric values to device control values using the existing characterization;

producing the characterization target having patches having the device control values;

colorimetrically measuring said color regions of said characterization target; and

generating a new characterization of the device based on said measuring of said color regions.